

		Cast Iron, Ductile		Low Alloy Steel		Medium Carbon Steel		High Carbon Steel		Cast Al-Alloy		Age Hardening wrought Al-Alloys	
Criteria	Weight	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score	Value	Score
Density (kg/m^3)	3	4	12	3	9	3	9	3	9	6	18	5	15
Price (GBP/kg)	4	7	28	4	16	6	24	5	20	2	8	1	4
Youngs Modulus (Gpa)	1	5	5	6	6	7	7	7	7	4	4	4	4
Yield Strength (GPa)	4	4	16	7	28	6	24	5	20	2	8	3	12
Tensile Strength (Mpa)	2	4	8	7	14	5	10	6	12	2	4	3	6
Compressive Strength (Mpa)	2	4	8	7	14	6	12	5	10	2	4	3	6
Total			77		87		86		78		46		47

Non-Age Hardening wrought Al-Alloys	
Value	Score
7	21
3	12
3	3
1	4
1	2
1	2
	44